U.S. Patent Application Serial No. 10/782,821 Amendment filed October 15, 2008 Reply to OA dated July 9, 2008

AMENDMENT TO THE SPECIFICATION:

Please amend the specification as follows:

Please replace the paragraph beginning on page 12 line 7 with the following rewritten paragraph:

When a ring-shaped lamp is used, the weighting factor is obtained as shown in Fig. 6, and is represented by the following equation (5).

$$\frac{F_{k} - A_{k}/(\sigma_{2}^{2}\pi - \sigma_{1}^{2}\pi)}{F_{k}' - A_{k}/(\sigma_{2}^{2}\pi - \sigma_{1}^{2}\pi)} \dots (5)$$

Also, the average value of light intensity (I) is calculated with the use of the following equation:

$$\overline{I} = \sum_{k=1}^{N} F_k S_k S_k *$$

wherein, "F_k'" is a weighting factor of diffracted light (a real number), and "S_k'" is the amplitude of the diffracted light (a complex number: an asterisk (*) represents a complex conjugate number.), "k" representing the number of the diffracted light corresponds to the combination of (n,m) one to one; ("n" and "m" are the orders of diffracted light in X and Y directions, respectively.)